

# FCC 5GHz Power Table



Standard:	FCC 15.407	Test Date:	2021.11.26	Temperature:	25°C	Humidity:	55%RH		
Project No. :	2140224R			Product Name:	Touch All one Computer	Model Name:	ESY1514-C		
Antenna Gain(dBi)	Ant 1	2.80	Ant 2	2.75					
CDD-Directional Gain-Power(dBi)	2.80								
Antenna Technology:	CDD								
Mode:	802.11a	Data Rate:	6Mbps	Conducted power					
				SISO mode					
				Ant1	Ant2	Total Power		Limit	
Test Conditions	Channel	Frequency	Reading Level		Reading Level		Total Power		Limit
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		
Tnom (25 °C)	Vnom (120V)	36	5180	9.91	10.31	9.91	10.31	24	Pass
		44	5220	10.00	10.28	10.00	10.28	24	Pass
		48	5240	10.03	10.37	10.03	10.37	24	Pass
		52	5260	12.91	13.31	12.91	13.31	24	Pass
		60	5300	13.24	13.63	13.24	13.63	24	Pass
		64	5320	13.20	13.53	13.20	13.53	24	Pass
		100	5500	13.17	13.52	13.17	13.52	24	Pass
		116	5580	12.87	13.21	12.87	13.21	24	Pass
		140	5700	12.63	13.01	12.63	13.01	24	Pass
		149	5745	6.67	7.03	6.67	7.03	30	Pass
		157	5785	6.10	6.42	6.10	6.42	30	Pass
		165	5825	6.03	6.33	6.03	6.33	30	Pass
		Mode:	802.11a	Data Rate:	6Mbps	Conducted power			
				MIMO Mode(2TX+2RX)					
				Ant 1+2		Total Power		Limit	
Test Conditions	Channel	Frequency	Reading Level				Total Power		Limit
		(MHz)	Avg. (dBm)				Avg. (dBm)		
Tnom (25 °C)	Vnom (120V)	36	5180	9.83	10.21	13.03		24	Pass
		44	5220	9.90	10.32	13.13		24	Pass
		48	5240	10.00	10.27	13.15		24	Pass
		52	5260	12.71	13.14	15.94		24	Pass
		60	5300	13.10	13.52	16.33		24	Pass
		64	5320	13.04	13.42	16.24		24	Pass
		100	5500	13.01	13.44	16.24		24	Pass
		116	5580	12.81	13.10	15.97		24	Pass
		140	5700	12.50	12.93	15.73		24	Pass
		149	5745	6.60	6.91	9.77		30	Pass
		157	5785	6.02	6.31	9.18		30	Pass
		165	5825	5.94	6.20	9.08		30	Pass
		Mode:	802.11n(20MHz)	Data Rate:	MCS0	Conducted power			
				SISO mode					
				Ant1	Ant2	Total Power		Limit	
Test Conditions	Channel	Frequency	Reading Level		Reading Level		Total Power		Limit
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		
Tnom (25 °C)	Vnom (120V)	36	5180	9.81	10.28	9.81	10.28	24	Pass
		44	5220	9.84	10.30	9.84	10.30	24	Pass
		48	5240	9.98	10.21	9.98	10.21	24	Pass
		52	5260	12.80	13.17	12.80	13.17	24	Pass
		60	5300	13.20	13.51	13.20	13.51	24	Pass
		64	5320	13.04	13.50	13.04	13.50	24	Pass
		100	5500	13.02	13.36	13.02	13.36	24	Pass
		116	5580	12.80	13.02	12.80	13.02	24	Pass
		140	5700	12.61	12.90	12.61	12.90	24	Pass
		149	5745	6.60	6.84	6.60	6.84	30	Pass
		157	5785	6.01	6.22	6.01	6.22	30	Pass
		165	5825	5.95	6.21	5.95	6.21	30	Pass
		Mode:	802.11n(20MHz)	Data Rate:	MCS0	Conducted power			
				MIMO Mode(2TX+2RX)					
				Ant 1+2		Total Power		Limit	
Test Conditions	Channel	Frequency	Reading Level				Total Power		Limit
		(MHz)	Avg. (dBm)				Avg. (dBm)		
Tnom (25 °C)	Vnom (120V)	36	5180	9.90	10.24	13.08		24	Pass
		44	5220	9.92	10.27	13.11		24	Pass
		48	5240	9.90	10.21	13.07		24	Pass
		52	5260	12.82	13.24	16.05		24	Pass
		60	5300	13.11	13.52	16.33		24	Pass
		64	5320	13.01	13.43	16.24		24	Pass
		100	5500	13.04	13.40	16.23		24	Pass
		116	5580	12.74	13.13	15.95		24	Pass
		140	5700	12.50	12.87	15.70		24	Pass
		149	5745	6.54	6.88	9.72		30	Pass
		157	5785	6.04	6.31	9.19		30	Pass
		165	5825	6.00	6.24	9.13		30	Pass
		Mode:	802.11n(40MHz)	Data Rate:	MCS0	Conducted power			
				SISO mode					
				Ant1	Ant2	Total Power		Limit	
Test Conditions	Channel	Frequency	Reading Level		Reading Level		Total Power		Limit
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		

Test Conditions		Channel	(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	38	5190	9.24		9.55		9.24	9.55	24	Pass
		46	5230	9.09		9.41		9.09	9.41	24	Pass
		54	5270	11.00		11.26		11.00	11.26	24	Pass
		62	5310	11.12		11.47		11.12	11.47	24	Pass
		102	5510	11.26		11.55		11.26	11.55	24	Pass
		118	5590	11.09		11.43		11.09	11.43	24	Pass
		134	5670	11.17		11.51		11.17	11.51	24	Pass
		151	5755	4.91		5.22		4.91	5.22	30	Pass
		159	5795	4.60		4.92		4.60	4.92	30	Pass
Mode:	802.11n(40MHz)	Data Rate:	MCS0	Conducted power MIMO Mode(2TX+2RX)							
Test Conditions	Channel	Frequency	Reading Level				Total Power		Limit		
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail	
Tnom (25 °C)	Vnom (120V)	38	5190	9.27		9.46		12.38		24	Pass
		46	5230	9.19		9.38		12.30		24	Pass
		54	5270	11.02		11.33		14.19		24	Pass
		62	5310	11.22		11.35		14.30		24	Pass
		102	5510	11.21		11.42		14.33		24	Pass
		118	5590	11.10		11.40		14.26		24	Pass
		134	5670	11.27		11.49		14.39		24	Pass
		151	5755	5.00		5.30		8.16		30	Pass
		159	5795	4.68		5.01		7.86		30	Pass
Mode:	802.11ac(20MHz)	Data Rate:	MCS0	Conducted power SISO mode							
Test Conditions	Channel	Frequency	Reading Level		Reading Level		Total Power		Limit		
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail	
Tnom (25 °C)	Vnom (120V)	36	5180	9.76		10.09		9.76	10.09	24	Pass
		44	5220	9.87		10.12		9.87	10.12	24	Pass
		48	5240	9.91		10.12		9.91	10.12	24	Pass
		52	5260	12.80		13.10		12.80	13.10	24	Pass
		60	5300	13.13		13.50		13.13	13.50	24	Pass
		64	5320	13.10		13.41		13.10	13.41	24	Pass
		100	5500	13.08		13.36		13.08	13.36	24	Pass
		116	5580	12.64		13.05		12.64	13.05	24	Pass
		140	5700	12.50		12.89		12.50	12.89	24	Pass
		149	5745	6.59		6.84		6.59	6.84	30	Pass
		157	5785	6.01		6.24		6.01	6.24	30	Pass
		165	5825	5.86		6.20		5.86	6.20	30	Pass
		Mode:	802.11ac(20MHz)	Data Rate:	MCS0	Conducted power MIMO Mode(2TX+2RX)					
Test Conditions	Channel	Frequency	Reading Level				Total Power		Limit		
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail	
Tnom (25 °C)	Vnom (120V)	36	5180	9.78		10.20		13.01		24	Pass
		44	5220	9.81		10.30		13.07		24	Pass
		48	5240	10.00		10.24		13.13		24	Pass
		52	5260	12.78		13.21		16.01		24	Pass
		60	5300	13.09		13.45		16.28		24	Pass
		64	5320	13.00		13.40		16.21		24	Pass
		100	5500	13.03		13.32		16.19		24	Pass
		116	5580	12.65		13.02		15.85		24	Pass
		140	5700	12.50		12.87		15.70		24	Pass
		149	5745	6.60		6.80		9.71		30	Pass
		157	5785	6.00		6.26		9.14		30	Pass
		165	5825	5.91		6.20		9.07		30	Pass
		Mode:	802.11ac(40MHz)	Data Rate:	NSSMCS0	Conducted power SISO mode					
Test Conditions	Channel	Frequency	Reading Level		Reading Level		Total Power		Limit		
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail	
Tnom (25 °C)	Vnom (120V)	38	5190	9.34		9.65		9.34	9.65	24	Pass
		46	5230	9.23		9.45		9.23	9.45	24	Pass
		54	5270	11.02		11.32		11.02	11.32	24	Pass
		62	5310	11.30		11.43		11.30	11.43	24	Pass
		102	5510	11.35		11.67		11.35	11.67	24	Pass
		118	5590	11.13		11.53		11.13	11.53	24	Pass
		134	5670	11.17		11.55		11.17	11.55	24	Pass
		151	5755	5.05		5.24		5.05	5.24	30	Pass
		159	5795	4.67		5.10		4.67	5.10	30	Pass
Mode:	802.11ac(40MHz)	Data Rate:	NSSMCS0	Conducted power MIMO Mode(2TX+2RX)							
Test Conditions	Channel	Frequency	Reading Level				Total Power		Limit		
		(MHz)	Avg. (dBm)		Avg. (dBm)		Avg. (dBm)		Avg. (dBm)	Pass/Fail	
Tnom (25 °C)	Vnom (120V)	38	5190	9.37		9.56		12.48		24	Pass
		46	5230	9.25		9.43		12.35		24	Pass
		54	5270	11.08		11.36		14.23		24	Pass
		62	5310	11.30		11.55		14.44		24	Pass
		102	5510	11.41		11.70		14.57		24	Pass

		118	5590	11.20	11.44	14.33	24	Pass		
		134	5670	11.20	11.62	14.43	24	Pass		
		151	5755	5.01	5.23	8.13	30	Pass		
		159	5795	4.70	5.05	7.89	30	Pass		
<b>Mode:</b>	<b>802.11ac(80MHz)</b>	<b>Data Rate:</b>	<b>NSSMCS0</b>	<b>Conducted power</b>						
				<b>SISO mode</b>						
<b>Test Conditions</b>		<b>Channel</b>	<b>Frequency</b>	<b>Reading Level</b>	<b>Reading Level</b>	<b>Ant1</b>	<b>Ant 2</b>	<b>Limit</b>		
			<b>(MHz)</b>	<b>Avg. (dBm)</b>	<b>Avg. (dBm)</b>	<b>Avg. (dBm)</b>		<b>Avg. (dBm)</b>	<b>Pass/Fail</b>	
Tnom (25 °C)	Vnom (120V)	42	5210	8.50	8.85	8.50	8.85	24	Pass	
		58	5290	10.50	10.81	10.50	10.81	24	Pass	
		106	5530	10.40	10.72	10.40	10.72	24	Pass	
		155	5775	4.07	4.41	4.07	4.41	30	Pass	
<b>Mode:</b>	<b>802.11ac(80MHz)</b>	<b>Data Rate:</b>	<b>NSSMCS0</b>	<b>Conducted power</b>						
				<b>MIMO Mode(2TX+2RX)</b>						
<b>Test Conditions</b>		<b>Channel</b>	<b>Frequency</b>	<b>Ant 1+2</b>		<b>Total Power</b>		<b>Limit</b>		
			<b>(MHz)</b>	<b>Reading Level</b>		<b>Avg. (dBm)</b>		<b>Avg. (dBm)</b>	<b>Avg. (dBm)</b>	<b>Pass/Fail</b>
Tnom (25 °C)	Vnom (120V)	42	5210	8.04	8.01	11.04		24	Pass	
		58	5290	10.45	11.01	13.75		24	Pass	
		106	5530	10.43	10.78	13.62		24	Pass	
		155	5775	4.20	4.50	7.36		30	Pass	